

TEMPERATURE SENSOR APPARATUS AND METHOD

ABSTRACT OF THE DISCLOSURE

[0036] A system and method for determining a temperature including: a temperature sensor including: a substrate resistance configured to be primarily responsive to a temperature of a substrate; and a membrane resistance configured to be primarily responsive to a temperature of a membrane. The substrate resistance and the membrane resistance are arranged in a series circuit configured to facilitate measurement of a voltage responsive to a temperature change. The system also includes a controller in operable communication with the temperature sensor. The method includes: receiving a temperature signal, the temperature signal indicative of a composite temperature variation including a first varying portion and a second varying portion; configuring the temperature signal to eliminate the second varying portion; and generating a temperature value based on the configuring wherein the temperature value is substantially based on the first varying portion.